

Title (en)

MIXER ASSEMBLY AND METHOD FOR FLOW CONTROL IN A MIXER ASSEMBLY

Title (de)

MISCHERANORDNUNG UND VERFAHREN ZUR STRÖMUNGSSTEUERUNG IN EINER MISCHERANORDNUNG

Title (fr)

SYSTÈME MÉLANGEUR ET PROCÉDÉ DE RÉGULATION DE L'ÉCOULEMENT DANS UN SYSTÈME MÉLANGEUR

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Application

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Abstract (en)

[origin: WO2009088356A1] A mixer assembly is disclosed, comprising a motor, a motor shaft, a propeller connected to the motor shaft and in operation driven by the motor in a first direction of rotation (RD) about a propeller axis (A), the propeller (3) fully submersed in liquid during operation and in rotation generating liquid flow from a suction side (S) to a pressure side (P) of the propeller. Flow control vanes (11) are arranged on the suction side of the propeller, and oriented in an axial plane to deflect the liquid from substantially axial flow into a flow (DF) containing a circumferential component of direction which is opposed to the direction of rotation (RD) of the propeller. Disclosed is also a method for providing axial liquid flow (FD) from a mixer propeller that is fully submerged in liquid during operation, comprising the steps of applying flow control on the suction side (S) of the mixer propeller through the arrangement of flow control vanes (11).

IPC 8 full level

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